



10 30 50  
GCTCACCAAAATGGTCGTCGACAAGAATGCCTCCGGGCTTCGAATGAAGGTCGATGGCAA  
M V V D K N A S G L R M K V D G K

70 90 110  
ATGGCTCTACCTTAGCGAGGAATTGGTGAAGAAACATCCAGGAGGAGCTGTTATTGAACA  
W L Y L S E E L V K K H P G G A V I E Q

130 150 170  
ATATAGAAATTCGGATGCTACTCATATTTCCACGCTTCCACGAAGGATCTTCTCAGGC  
Y R N S D A T H I F H A F H E G S S Q A

190 210 230  
TTATAAGCAACTTGACCTTCTGAAAAAGCACGGAGAGCACGATGAATTCCTTGAGAAACA  
Y K Q L D L L K K E G E H D E F L E K Q

250 270 290  
ATTGGAAAAGAGACTTGACAAAGTTGATATCAATGTATCAGCATATGATGTCAGTGTTGC  
L E K R L D K V D I N V S A Y D V S V A

310 330 350  
ACAAGAAAAGAAAATGGTTGAATCATTGAAAACTACGACAGAAGCTTCATGATGATGG  
Q E K K M V E S F E K L R Q K L H D D G

370 390 410  
ATTAATGAAAGCAAATGAAACATATTTCTGTTTAAAGCGATTTC AACACTTTCAATTAT  
L M K A N E T Y F L F K A I S T L S I M

430 450 470  
GGCATTTCATTTTATCTTCAGTATCTTGGATGGTATATTACTTCTGCATGTTTATTAGC  
A F A F Y L Q Y L G W Y I T S A C L L A

490 510 530  
ACTTGCATGGCAACAATTCGGATGGTTAACACATGAGTTCTGCCATCAACAGCCAACAAA  
L A W Q Q F G W L T H E F C H Q Q P T K

FIG. 1A

550	570	590
GAA CAG ACC TTT GAAT GATA CTAT TTT CTT GTT CTT TGG TAAT TTT CTT ACA AGG ATTT TC		
N R P L N D T I S L F F G N F L Q G F S		
610	630	650
AAG AGATT GGT GGA AGG ACA AGC ATA A CACT CAT CAC GCT GCC ACA AAT GTA ATT GAT CA		
R D W W K D K H N T H H A A T N V I D H		
670	690	710
TGAC GGT GAT ATC GACT TGG CACC ACT TTT CGC ATT TATT CCAG GAG ATTT GTG CAAG TA		
D G D I D L A P L F A F I P G D L C K Y		
730	750	770
TAAG GCCAG CTTT GAAAA AGCA ATTCT CAAG ATTGT ACCAT ATCA ACAT CTCT ATTTT CAC		
K A S F E K A I L K I V P Y Q H L Y F T		
790	810	830
CGCA ATG CTTCCA ATG CTCC GTTTCT CATGG ACTGGT CAGT CAGT TCAAT GGGT ATTCAA		
A M L P M L R F S W T G Q S V Q W V F K		
850	870	890
AGa GAATCAA ATGG AGTACA AGGTCT ATCAA AGAAATGC ATTCTGGG AGCAAGCA ACAAT		
E N Q M E Y K V Y Q R N A F W E Q A T I		
910	930	950
TGT TGGAC ATTGGG CTTGGGT ATTCTATCA ATTGTTCTT ATTACCA ACATGGGCC ACTTCG		
V G H W A W V F Y Q L F L L P T W P L R		
970	990	1010
GGT TGGCTTATTTT CATTATTTT CACAAATGGG AGGAGGCCTTTTG ATTGCTCACGTAGT CAC		
V A Y F I I S Q M G G G L L I A H V V T		

FIG. 1B

1030	1050	1070
TTTCAACCATAACTCTGTTGATAAGTATCCAGCCAATTCTCGAATTTTAAACAACCTTCGC		
F N H N S V D K Y P A N S R I L N N F A		
1090	1110	1130
CGCTCTTCAAATTTTGACCACACGCAACATGACTCCATCTCCATTGATTGGCTTTG		
A L Q I L T T R N M T P S P F I D W L W		
1150	1170	1190
GGGTGGACTCAATTATCAGATCGAGCACCACCTTGTTCCCAACAATGCCACGTTGCAATCT		
G G L N Y Q I E H H L F P T M P R C N L		
1210	1230	1250
GAATGCTTGCGTGAAATATGTGAAAGAATGGTGCAAAGAGAATAATCTTCCTTACCTCGT		
N A C V K Y V K E W C K E N N L P Y L V		
1270	1290	1310
CGATGACTACTTTGACGGATATGCAATGAATTTGCAACAATTGAAAAATATGGCTGAGCA		
D D Y F D G Y A M N L Q Q L K N M A E H		
1330	1350	1370
CATTCAAGCTAAAGCTGCCTAAACAATCTGGGTGTTCAAAAAGTTTTTCTTGTTTTTTT		
I Q A K A A *		
1390	1410	1430
AAATTTAATTCTTTGAAATTATTTGTTTTCCGTCATTCTTCCTCCATTCCCTTTTCTGGT		
1450		
AGAAATAAAACCTTGTTTTTCAA		

FIG. 1C

# FIG. 2A

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Mywormd6 Cew08d2	MVVDKKNASGL MVVDKKNASGL	RHKVDGKKWLY RHKVDGKKWLY	LSEELVKKKHP LSEELVKKKHP	GGAVIEQ... GGAVIEQYSI	...PPLNKNIE... ...PPLNKNIE...TR	GIITTRGSSN GIITTRGSSN	37 60
Mywormd6 Cew08d2	...YRN ALDILYFYRN	SDATHIFHAF SDATHIFHAF	HEGSSQAYKO HEGSSQAYKO	LDLLKKKHGEH LDLLKKKHGEH	DEFLEKQLEK DEFLEKQLEK	RLDKVDINVS RLDKVDINVS	90 120
Mywormd6 Cew08d2	AYDVSVAQEK AYDVSVAQEK	KHVESFEKLR KHVESFEKLR	QKLHDDGGLMK QKLHDDGGLMK	ANETVYFLFKA ANETVYFLFKA	ISTLSIMAF... ISTLSIMAF...	FYLOYLGWYI FYLOYLGWYI	150 180
Mywormd6 Cew08d2	TSACLLALAW TSACLLALAW	QQFGWLTHEF QQFGWLTHEF	CHQOPTKNRP CHQOPTKNRP	LNDTISLFFG LNDTISLFFG	NFLQGFSTRDW NFLQGFSTRDW	WKDKHNTTHA WKDKHNTTHA	210 240
Mywormd6 Cew08d2	ATNVIDHDGD ATNVIDHDGD	IDLAPLFAFI IDLAPLFAFI	PGDLCKYKAS PGDLCKYKAS	FEKATLKIIVP FEKATLKIIVP	YQHLYFTAML YQHLYFTAML	PM LRF:SWTGO PM LRF:SWTGO	270 300
Mywormd6 Cew08d2	SVQWVFEKENQ SVQWVFEKENQ	MEYKVYQRNA MEYKVYQRNA	FWEQATIVGH FWEQATIVGH	WAWVFYQLFL WAWVFYQLFL	LPTWPLRVAY LPTWPLRVAY	FTISQMGGL FTISQMGGL	330 360
Mywormd6 Cew08d2	LIAHVVTFNH LIAHVVTFNH	NSVDKYRANS NSVDKYRANS	RTLNFFAALO RTLNFFAALO	ILTTNRNTPS ILTTNRNTPS	PFIDWLWGGL PFIDWLWGGL	NYQIEHHLEFP NYQIEHHLEFP	390 420
Mywormd6 Cew08d2	TMPCR CNL NAC TMPCR CNL NAC	VKYVKEWCKE MKYVKEWCKE	NNLPYLVDDBY NNLPYLVDDBY	FDGYAMNLOO FDGYAMNLOO	LKNMAEHIQA LKNMAEHIQA	KAA • 443 KAA • 473	

**b<sub>5</sub>**

boofd6 ceeld6	MAAQIKKYYIT .....	SDELKKNHDKKP ...MVDKNA	GDLEWISIQGK SGLRMKVDGK	AYDVS.DWVK WLYLSEELVK	DHPGGGSPPLK KHPGGAV.IE	SLAQQEV.TDA QYRNSDATHI	59 46
boofd6 ceeld6	EVAFHPAS.. FHAFHEGSSQ	TWKNLDKFF.. AYKQLDLKKK	...FTGYYLK HGEHDEFLEK	DY...DKVD QLEKRLDKVD	..SVSEVS. INVSAYDVS	KDYRKLLVFEF AQEKMMVESF	100 106
boofd6 ceeld6	SKMGLYDKKG EKLRLQKLHDD	HI.MPA..TLC GLMKANE.TYF	FIAMLFAMSV LPKAISTLSI	YGVLFCEGV MAFAFYLYL	VHLF.SGCLM GWYITSACLL	GFLWIOSGWI ALAWQOFGWL	157 166
boofd6 ceeld6	GHDAAGHYMVV THEFCIIQQPT	SDSRUNKFMG KNRPLNDTIS	IFAAANCLSGI LFFGNFLQGE	SIGWKKNNHN SRDWKKDKHN	AHHIACNSLE THHAATNVID	YDPLDQYIPF HDDIDLAP.	217 225
boofd6 ceeld6	LVVSSKPFEGS .....LPAF	LTSHFYEKRL IPGDLCKYKA	TFDSLSRFFV SFEKAILKIV	SYQHWTIFYPI PYOHLIFYFTAM	MCAARLNMVY LPMLRFSWTG	QSLIMLLTKR OSVQWVFKEN	277 279
boofd6 ceeld6	NVSYRAHE.. QMEYKVYQRN	.....LLG AFWEQATIVG	CLVFSIWYPL HMAW.VFYQL	LVSCLPNNWGE FL..LPTMPL	RIMFVIFASLS RVAYYFIISQM	VTGMQQVQ.F GGGLLIAHV	327 336
boofd6 ceeld6	SLMFPSSSVV TFWHINSVDKY	VGKPKG.NNW PANSRIILNNF	FEXQTDGTL AALQIILTTN	ISCPFMMDW MTPSEFIDWL	HGGLOFOIEH WGGNLNYOIEH	HLPKMPRCN HLEPTMPRCN	386 396
boofd6 ceeld6	LARKISPWVITE LNACVKVKVKE	LCKKHNLPLYN WCKENNLPLYL	YASF'SKANEM VDDYFDDGYAM	TLRTRLRNTA. NEQQLKNNMAE	..LQARDITKP HIOAKAA*..	LPKNLVWEAL .....	444 443
boofd6 ceeld6	HTHG*448 .....443						

FIG. 2B